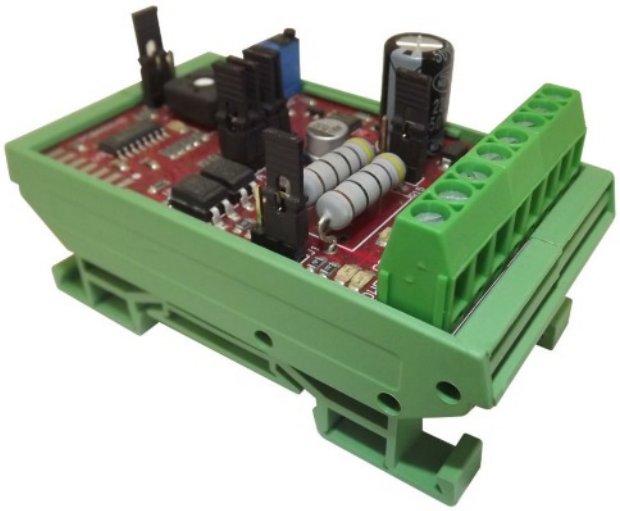
AX-RLA

Isolated Raise Lower to Analogue Converter



Product overview

The Axio AX-RLA isolates and converts a raise-lower input signal into a 0-10 volt analogue output. The unit provides sixteen raise-lower cycle times and a manual output override for commissioning. The input common can be connected to the signal 0V or supply voltage allowing the inputs to be voltages (AC/DC) or switching signals. Input load resistors can be selected for triac switching. The unit also provides a 24V supply feed through for valve actuators, etc. to simplify cabling. The AX-RLA is supplied in a DIN rail carrier suitable for mounting on TS35 section DIN rail and features high quality rising clamp terminals for ease of connection.

Features

- Isolated Raise Lower inputs
- 12 to 24 Vac/dc or volt free inputs
- Raise and Lower input LEDs
- 24Vac/dc powered
- Sixteen cycle time options
- Built in triac load resistors
- Override preset for commissioning
- DIN rail carrier (TS35 DIN rail)

Product specifications

Supply Voltage	24Vac or 24Vdc (±15%)
Supply Current	30mA DC / 60mA AC (Not including input current)
Inputs	12 to 24Vac/dc or volt free Raise and Lower signals
Input Load	Approximately 10mA at 24Vac with J1 or J2 in N position
	Approximately 50mA at 24Vac with J1 or J2 in T position
Raise Lower timing	30 to 300 seconds, see table)
Outputs	0-10Vdc at 10mA maximum load
	24 supply feed through
Terminals	Rising clamp for 0.5-2.5mm² cable
Ambient Temperature Range	0˚C to 50˚C
Dimensions	45(W) x 83(H) x 45(D)mm (Maximum_
Weight	50gms
Country of Origin	United Kingdom

Order codes

AX-RLA-AC	Isolated Raise Lower to Analogue converter - 24Vac
AX-RLA-DC	Isolated Raise Lower to Analogue converter - 24Vdc

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ANNICOM

Annicom Ltd
Unit 21, Highview, Bordon, Hampshire. GU35 0AX
Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799
Email: sales@annicom.com Website: www.annicom.com

Power Supply

The unit can be powered form 24Vac or dc, this is fed through as 24V out. The raise-lower and common inputs are optically isolated from the unit supply allowing them to be connected to an external supply or ground.

Installation

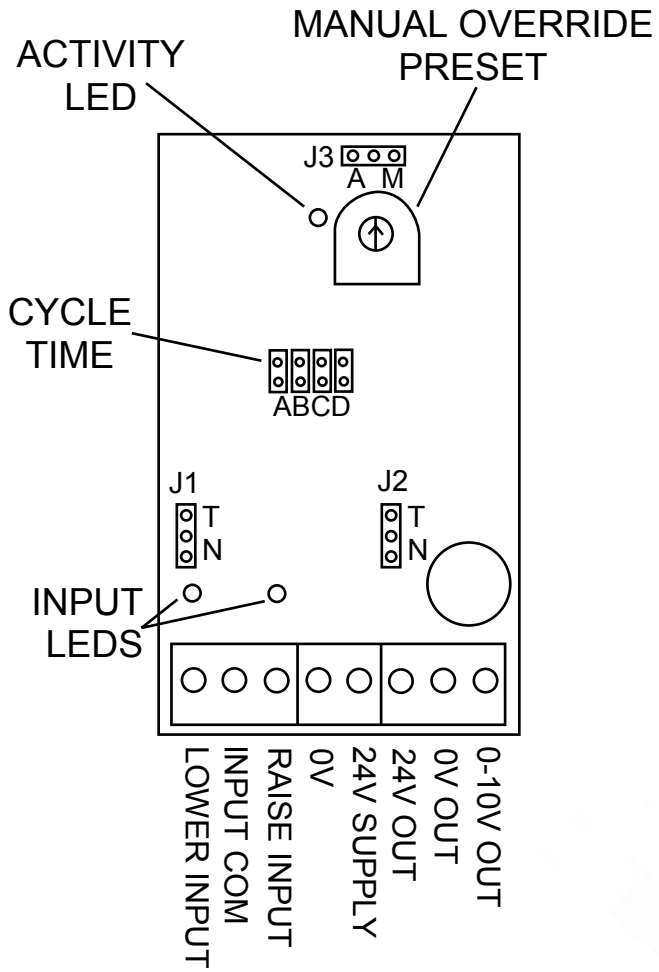
The AX-RLA should be installed by suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Description and connections

The unit accepts AC or DC voltages or switching signals on the raise-lower inputs. If the input is connected to 24Vac the switching signal could be from a relay, triac, switch etc. if the input is connected to 24Vdc the switching signal could be from a relay, open collector transistor, switch, etc. With J3 in the A position the Raise Lower inputs are converted using the cycle time selected to produce a proportional 0-10V analogue output. For commissioning J3 can be moved to the M position and the 0-10 volt output adjusted using the manual override preset.

J1 (Input 1) and J2 (Input 2) select the input load resistors and can be set independently. If the raise-lower inputs signals are provided by triacs it is recommended to place both J1 and J2 in position T to increase the input loading.

Two input LEDs provide indication of input activity and one activity LED pulses once per second to show the unit is operating.



Cycle time jumper				Cycle Time
A	B	C	D	(Seconds)
0	0	0	0	30
0	0	0	X	35
0	0	X	0	60
0	0	X	X	70
0	X	0	0	80
0	X	0	X	90
0	X	X	0	95
0	X	X	X	100
X	0	0	0	105
X	0	0	X	120
X	0	X	0	125
X	0	X	X	140
X	X	0	0	150
X	X	0	X	180
X	X	X	0	200
X	X	X	X	300

Table 1 Raise-lower cycle times

X - jumper fitted
0 - Jumper not fitted

Other cycle times available - Please call

The diagrams show switches or relays providing the raise-lower input signals. For AC voltages these could be triacs and for DC voltages these could be transistors.

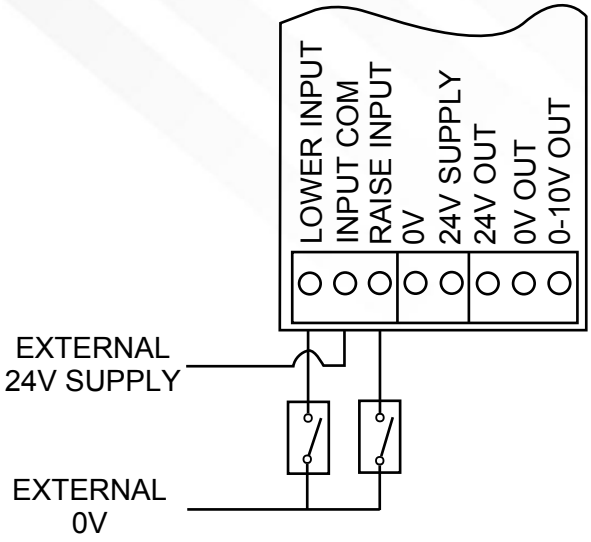


FIG1. External 24V supply
with switched ground

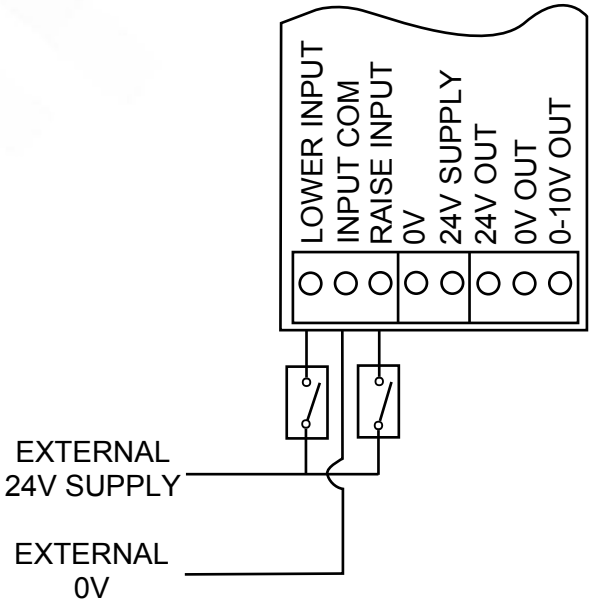


FIG2. External 24V supply
with switched supply

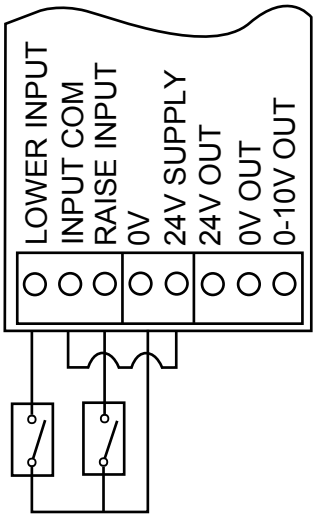


FIG3. Common 24V supply
with switched ground
No isolation

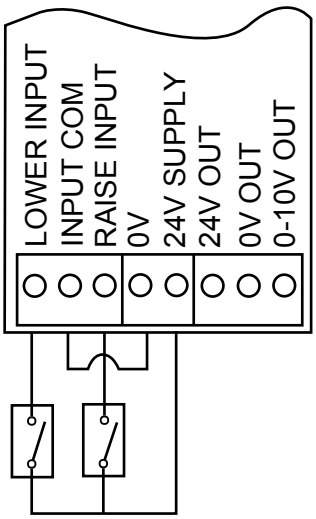


FIG4. Common 24V supply
with switched supply
No isolation